

AWEX-G Forecast for Wednesday, Nov. 12 (Nov 13 UT)

Forecast (updated 6:25pm CST): Cloud coverage will be extensive tonight, but bases will be above 10-kft. Winds north/northeast, dropping below the 5m/s limit late (several hours after midnight). **Except for surface air, atmosphere is still moist. Skies starting to look a little better than this afternoon in the region, but there is still plenty of upper level moisture as well as clouds to the west that can be advected.**

Synopsis: 00Z [surface analysis](#): High pressure to our northwest over Colorado/Nebraska/Kansas junction. Oklahoma entirely behind cold front extending to low pressure center over Great Lakes.

[OK mesonet](#): Winds 10 to 15 mph from the north. Area temps in the low and mid-50s; dewpoints below freezing. Oklahoma air seems to be drying out from the west.

[Grant County forecast](#): Tonight. Cloudy. Lows in the mid 30s. North winds 10 to 15 mph decreasing to around 10 mph after midnight.

[RUC cloud forecast](#): Ice clouds all night.

Tomorrow's Outlook: Cloudy, bases significantly lower than they are tonight. Good chance of rain tomorrow night as well. **Synoptic pattern is expected to return low level moisture flow by tomorrow night.**

=====

Observations at SGP@00 Z: MPL shows cloud bases at 4.5 km. Satellite shows thinning clouds by 0300 UT. Moist and breezy.

Decisions made at the 7pm AWEX-G meeting:

Cloudy! We may try the

- 1) ARM-90/80/Intermet (350g) (0300 UTC)
- 2) CUFH+92(GPS) (0300 UTC)

With possibility of second launch depending on conditions.

What actually occurred?

- 1) ARM-90/80/Intermet (350g) @ 0332 UTC
- 2) CUFH+92(GPS) @ 0329UTC

No second launch due to attenuation of lidar at 4.5 km and no thinning of clouds. Also Larry has a long chase tomorrow to recover his sonde.

Lidars

SRL data 0300 – 0500 UT. Interesting mixed phase cloud measurements. Measurements ended due to laser failure.
CARL ran throughout.

Dave Whiteman